

City University of Hong Kong  
Department of Electronic Engineering

# **EE3316 Information Product Design Mobile App Design Final Report 2013/14 (Semester B)**

**Into Heart**

Group No.: 05

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Heart is a vital organ of human body, once it stops, no matter how strong, you are gone. This app monitors heart rate all-day and evaluate heart health condition, integrates into everyday exercise training session and help user to control the exercise strength, to reach a better exercise goal, as well as training heart. With social integration, this app connects user with friends and family to motivate user care about their heart. This app also conducts emergency alert including: contacting the family, call ambulance, make noise, or any other viable first aids.

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## 1 Introduction

### 1.1 Market Research

Cardiovascular diseases (CVDs) are a group of disorders of the heart and blood vessel. In 2012 it kills 17 million people, makes 31% of all death in the world<sup>1</sup>. According to some researches, heart rate (HR) is an independent predictor of cardiovascular and all-cause mortality in men and women with and without diagnosed cardiovascular disease<sup>1</sup>. Heart rate was assigned the same weighting as blood pressure and cardiorespiratory fitness in the overall score<sup>1</sup>. On the other hand, It's vital to monitor your heart rate during exercise<sup>3</sup>. A target heart rate is recommended to reach best exercise goal. Time is important when heart attack suddenly occur, time is life, handling emergency situation is a problem when patient is not near there relatives.

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<sup>1</sup>WHO, Cardiovascular diseases (CVDs), retrieved from <http://www.who.int/mediacentre/factsheets/fs317/en/> on Feb 2, 2015

## 1.2 App Summary

## 1.3 Target User Group

## 1.4 Competitive Analysis

# 2 App Design and Analysis

## 2.1 Architectural Design

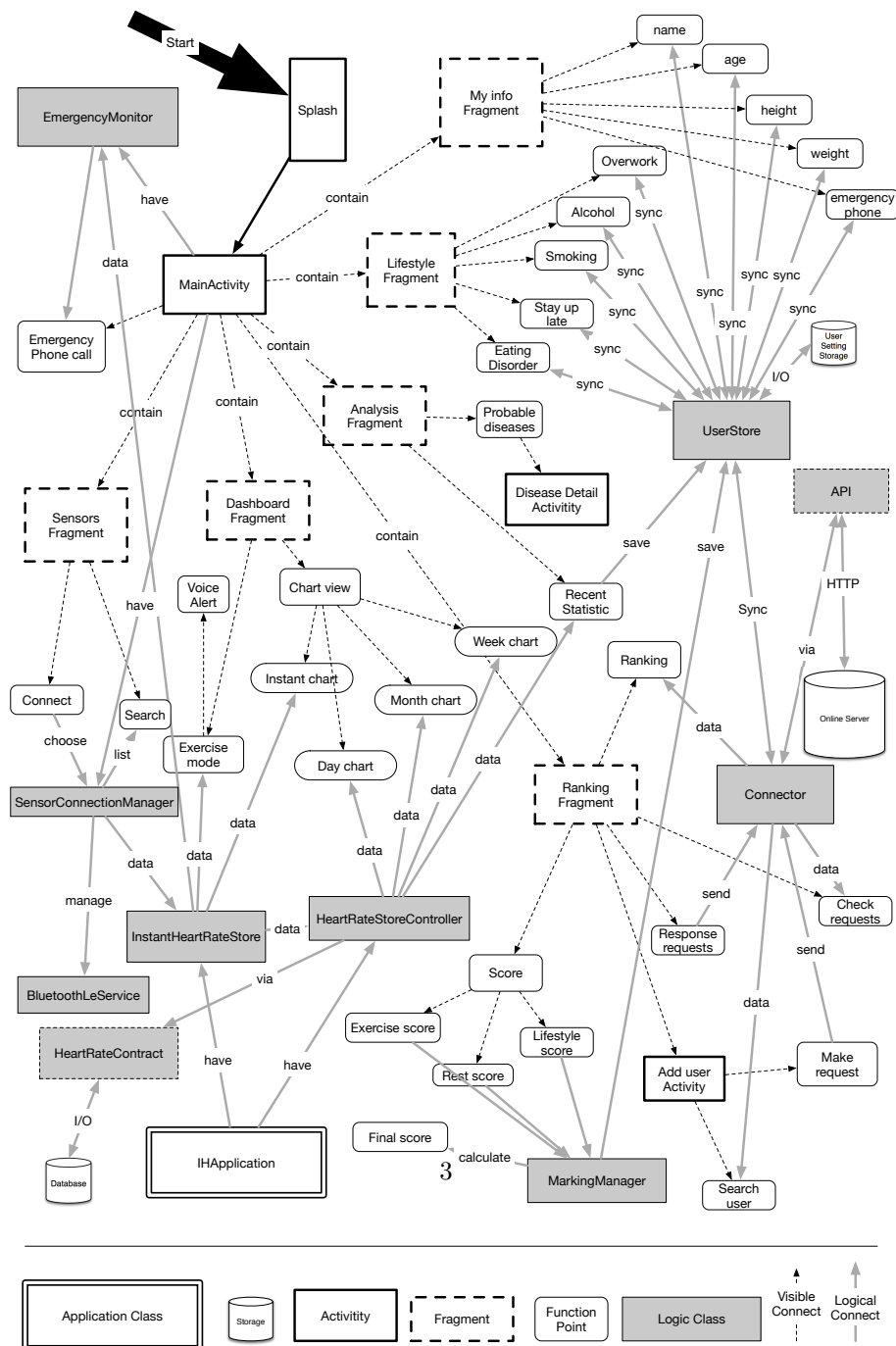


Figure 1: Into Heart Architectural Design